

हिंदुस्तान उर्वरक एवं रसायन लिमिटेड HINDUSTAN URVARAK & RASAYAN LTD.

(A Joint Venture of NTPC, CIL, IOCL, FCIL & HFCL) P.O.-Barauni Urvarak Nagar, Begusarai-851115 (Bihar)

Date: 18.09.2025

To.

Mr. Suresh P Roy,
Regional Officer,
Bihar State Pollution Control Board,
Barauni Industrial area,
Begusarai.

Ref: MoEF&CC, Environmental Clearance Letter No. J-11011/371/2016-IAII (I) dated 29.08.2017.

Sub: Environmental Statement for the financial year ending 31st March 2025.

We are submitting herewith the environmental statement for the financial year ending 31st March 2025 in respect of Ammonia & Urea production plant.

This is for your kind information.

Thanking you.

For & on behalf of HURL, Barauni.

Srinu Pitta

Manager (Environment & Quality Control)

Encl: Environmental Statement for the financial year ending 31st March 2025.

ENVIRONMENTAL STATEMENT FOR THE PERIOD 01.04.2024 TO 31.03.2025

(Submitted as per Rule-14 of the Environment (Protection) Amendment Rules, 1993 of the Environment (Protection) Act, 1986 (29 of 1986) published vide Notification dated 22.04.1993-G.S.R. 386(E) in the Gazette of India (Extraordinary) Part-II Section-3 Subsection (i). No.155 dated 28.04.1993 by the Ministry of Environment and Forests, Government of India: read with the Notification dated 13.02.1993 G.S.R. 329 (E) of the Gazette of India (Extraordinary) Part-II Section-3 Subsection (i) No. 120 dated 13-03-1993)

"FORM - V" (See Rule 14)

PART-A

GENERAL INFORMATION

Company Name : Hindustan Urvarak & Rasayan Limited

Occupier's Name
 Shri. Sanjai Kumar Gupta

3. Registered Office of the Company: Hindustan Urvarak & Rasayan Limited

with address Core-2, 2nd Floor, SCOPE Minar Laxmi Nagar

District Centre, New Delhi, Delhi 110092

Tel.: 011-22502267

4. Factory Address : Hindustan Urvarak & Rasayan Limited

Barauni, Urvarak Nagar, Begusarai-851115

5. Production capacity : Ammonia- 2200 MTPD

Urea-3850 MTPD

6. Establishment Year : Hindustan Urvarak & Rasayan Limited (HURL) was

incorporated on 15th June, 2016 as joint venture company by CIL, NTPC, IOCL as the lead promoters

with HFCL & FCIL as two other partners

Date of Last Environmental

Statement submitted

: 7th Environmental statement.



PART - B

Water and Raw Materials Consumption

(1) Water consumption m³/day:

Category	During the previous* financial year (2023-24)	During the current financial year (2024-25		
Process (m3/Day)	14711	12089		
Cooling (m3/Day)	12862	13396		
Domestic (m³/Day)	941	1227		

Water consumption per MT of Product Output:

Name of Product	During the previous * financial year (2023-24) (m³/MT)	During the current financial year (2024-25) (m ³ /MT)
Urea	5.06	5.16

(2) Raw Material Consumption -

* Nature of	Process Raw Mater	ial Consumption per unit	of product output
consumption	Quality of product	During the previous* financial year (2023-24)	During the current financial year (2024-25)
Natural Gas	Natural Gas	622 Sm3/MT	643

Industry may use codes if disclosing details of raw materials would violate contractual obligations, otherwise all industries have to name the raw materials used.

PART - C

Pollution discharged to environment/unit of output.

(Parameter as specified in the consent issued)

Pollutants	Quantity of pollutants discharged (mass/day)	Concentration of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(a) Water	Nil	NA NA	NA
(b) Air	Ambient Air Quality Monitoring data near site is attached as Annexure-1.	Ambient Air Quality Monitoring data near site is attached as Annexure-1.	Within prescribed standards (24/8/1 hourly Avg.)

STACK EMISSION TEST:

The emission data is attached as Annexure-1.



PART - D

HAZARDOUS WASTES

(As specified under Hazardous Wastes/Management and Handling Rules 1989)

Hazardous Wastes	Total Quantity (kg)				
	During the previous* financial year (2023-24)	During the current financial year (2024-25)			
(a) From process	Nil	Nil			
(b) From pollution control facilities	Nil	Nil			

PART - E

SOLID WASTE

	Total Qu	uantity
	During the previous financial year (2023-24)	During the current financial year (2024-25)
a) From process	~100 MT (Chemical sludge from waste water treatment)	~150 MT (Chemical sludge from waste water treatment) ~ 25 MT ZLD salt
 b) From pollution control facilities 	NA	NA
 Quantity recycled or reutilized within the Unit. 	NA NA	NA
d) Sold	NA	NA NA
e) Disposed	NA	NA

PART - F

Please specify the characterizations (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

HURL has adopted waste management plan conforming to different National and local regulations. An Agreement was made with M/s MSTC, Various Wastes mentioned in the Authorization no. HW/B-1934 Patna-10 dated 20.07.2022 shall be sold/disposed as the need arises.

PART - G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

HURL is monitoring parameters such as groundwater, surface water and ambient air quality within the plant premises and also outside premise as per EC norms.

PART - H

Additional measures / investment proposed for environmental protection including abatement of pollution, prevention of pollution.

Some of the measures adopted in the design stage itself of the project are mentioned below:

 Plant is based on zero liquid discharge concept i.e.; effluent water is being treated and reused.



- Continuous monitoring of particulate matter, NO_x & SO_x from all stacks; particulate matter and NH₃ from prilling tower is being done to control emission as per norms.
- Installed gas detectors at different locations to check fugitive emissions.

PART -I

Any other particulars in respect of environment protection and abatement of pollution.

Plant is based on natural gas as a raw material with state-of-the-art technology to minimize impact on surrounding environment. As per environment management plan (EMP) all required pollution control measures are adopted as integral part of the plant in design stage itself.

World Environment Day, World Water Day and World Forest Day was celebrated at HURL Barauni by planting various plants in plant and Township.

Plantation drive (Plantation of 7000 saplings) is going on to promote #Ek Ped Maa Ke Naam#Plant4Mother campaign initiated by Hon'ble Prime Minister.

Name & signature of the Occupie

Seal

SANJAI KUMAR GUPTA Project Head Hindustan Urvarak & Rasayan Ltd. Urvarak Nagar, Barauni, Begusaral (Bihar) 851115



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BUILDING & ROAD, MATERIAL, SOIL, ENVIRONMENTAL & CALIBRATION TESTING LAB

Env. STATEMENT for CTO Compliance for the period April 2024 - September 2024 for

Ammonia -Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

This Compliance Report is the fulfillments of the condition of the Environmental Clearance (EC) vide File No.EC [IA/BR/IND2/61377/2016, J-11011/371/2016-IA II (I)] for the period of April 2024 to September 2024 This report has been prepared by Nitya Laboratories by collecting respective samples in consultation with the State Pollution Control Board (SPCB) officials and Hindustan Urvarak and Rasayan Limited (HURL) officials During the above mentioned period the analysis of the environmental parameters has been conducted by the MOEF&CC recognized Laboratory at Nitya Laboratories, Jammu.

The proposed project is located at Barauni and was commissioned on 18 November 2022 with the capacity of 2200MTPD Ammonia and 3850MTPD Urea in the District Begusarai in the state of Bihar. The commercial production has started from 19 November 2022 with the board name APNA UREA. The area falls in the agricultural belt of the Bihar.

The compliance report fulfils the 19 Nos of Specific Conditions and 17 Nos. of General Conditions led by Ministry of Environment, Forests and Climate Change Rainwater Harvesting and Ground Water charging has been proposed as per Standard Guidelines.

- Guidelines on Artificial Recharge of Water, Central Water Ground Board, Ministry of Water Resources, Gol (2000)
- Manual on Artificial Recharge of Ground Water, Central Water Ground Board, Ministry of Water Resources, Gol (2007)
- Rain Water Harvesting and Conservation Manual Consultancy Services Organization, CPWD, Gol (2002)

The Environmental Monitoring report of 6 months w.r.t Air. Water and Noise have been presented separately with the average values. The environmental conditions and the compliance have been found normal as per the Standards. The Air Quality results have been presented through a self-explanatory table with the NAAQ Standards w.r.t the parameter PM₁₀, PM_{2.5}, NO_x, So_x, C₆H₆, CO, Benzo(a) pyrene (BAP), NH3, Ozone, Nickel, Arsenic and Lead. Three sets each of Ground Water Samples and Surface Water Samples have been collected, analyzed in a self-explanatory table, and compared with Drinking Water Standards (IS 10500:2012). The analysis consists of eight nos, of physical parameters, thirteen no's of chemical parameters, nine no's of Heavy metals and three no's of miscellaneous parameters. Noise Quality has also been measured at six different locations in the periphery of the project area. The results have been presented through self-explanatory table consisting of the Standard NAAQS w.r.t noise.

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MANAGER (E&QC)
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Joint Venture of NTPC, CIL, IOCL, FCIL & HFCI
Project Office- Urvarak Nagar, Baraun)

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The above report with respect to Air, Water and Noise represents the average values of different sampling stations collected at different time during the study period of April 2024 to September 2024.

TABLE-1
Location of Air Quality Monitoring Stations

Sr. No.	Location of Station	Frequency
1.	HURL Admin Building(SA1)	Twice a Week
2.	Simariya Village(SAZ)	Twice a Week
3.	HURL Residential Township(SA3)	Twice a Week
4_	Chackball Refinery Road(SA4)	Twice a Weak
5.	Chakya Village (SA5)	Twice a Week
6.	Bihat Village (SA6)	Twice a Week

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HURL BARAUNI, AIR QUALITY DATA - (April 2024 to September 2024)

Month	Paran	neters	NAAQS	HURL Admin	Simariya Village(SA	HURL Residential	Chackball	Chakiy	Bihat
) oranicers		Building(SA 1)	2)	Township(S A3)	Refinery Road(SA4)	Village (SA5)	Village (SA6)
	PM10		100	58.54	58.10	57.52	59.13	57.56	56.97
	PM2.5		60	36.51	36.75	37.46	36.84	35.33	34.68
	SO ₂	µg/m ³	80	11.31	11.22	10.84	11.96	10.52	10.97
	NO _s		80	16.27	14.11	13.18	16.93	19.68	15.86
	CBH6		5	ND:	ND	ND	ND	ND	ND
April	BAP	ng/m³	1	ND	ND	ND	ND	ND	ND
2024	co	mg/m	2	0.33	0.28	0.23	0.19	0.26	0.21
NH ₃ Ozone Ni As	NH ₃	µg/m³	400	45.86	12.16	10.89	62.91	17.00	19.98
	Ozone		180	18.87	12.18	11.69	12.00	13.52	12.83
	Ni	ng/m ³	20	ND	ND	NO	ND	ND	ND
	As		6	ND	ND	NO	ND	ND	ND
	Pb	µg/m ³	3.	ND	ND	ND	ND	ND	ND
	PM10		100	57.99	56.77	56.56	58 19	56.90	56.59
	PM2.5		60	35.79	36.59	37.44	34.98	35.88	37.47
	SO ₂	µg/m³	80	11.99	11.55	11.93	12,61	12.08	11.97
	NO,		80	16.82	13.73	13.64	16.66	20.12	16.39
	C6H6		5	ND	ND	ND	ND	ND	ND
May	BAP	ng/m³	1	ND	ND	ND	ND	ND	ND
2024	co	mg/m	2	0.29	0.26	0.23	0.19	0.24	0.19
	NH ₃	and the second	400	45.84	12.53	11.89	56.71	19.87	19.78
	Ozone	µg/m*	180	19.97	12.51	12.07	12.77	14.53	14.00
	Ni	ng/m ⁸	20	ND	ND	ND	ND	ND	ND
	As	- gan	6	ND	ND	ND	ND	ND	ND
	Pb	µg/m³	1	ND	ND	ND	ND	ND	ND.

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	+								
	PM10		100	64.66	64.40	64.78	64.81	64.67	64.82
	PM2.5		60	41.45	38.46	39.00	40.55	39.53	38.83
	S02	µд/т3	-80	12.97	12.16	11.06	11.86	11,66	11.1
	NOx		80	18.21	14.87	13.37	18.25	21.52	17.65
	C6H6		5	ND	ND	ND.	ND	ND	ND
June 2024	BAP	ng/m3	1	ND	ND	ND	ND	ND	ND
***************************************	CO	mg/m3	2	0.18	0.18	0.17	0.16	0.2	0.19
	NH3	µg/m3	400	51.91	12.36	10.78	72.36	20.70	24.50
	Ozone	pgrms	180	12.96	13.55	11.47	13.52	15.22	15.32
	Ni	naim2	20	ND	ND	ND	ND	ND	ND
	As	ng/m3	6	ND	ND	ND	ND	ND	ND
	Pb	µg/m3	1	ND	ND	ND	ND	ND	ND
	PM10		100	61.85	61.09	60.95	81.14	61.29	61.24
	PM2.5		60	38.48	37.99	36.58	38.55	36.35	37.26
	SO2	µg/m3	80	13.31	12.71	12.63	13.90	13.19	13.30
	NOx		80	18.64	16.54	16.03	17.61	19.54	18.39
	C6H6		5	ND	ND	ND	ND	ND	ND
July 2024	BAP	ng/m3	1	ND	ND	ND	ND	ND	ND
2017 2024	CO	mg/m3	2	0.19	0.20	0.21	0.19	0.18	0.19
	NH3	µg/m3	400	47.48	14.56	12.83	68.11	19.73	22.91
	Ozone		180	13.35	13.88	13.40	14.78	15.63	16.76
	Ni	ng/m3	20	ND	ND	ND	ND	ND	ND:
	As		6	ND	ND	ND	ND	ND	ND
	Pb	µgim3	1	ND	ND:	ND	ND	ND	ND
	PM10		100	59.06	57.14	56.20	56.89	54.88	57.18
	PM2.5		60	37.34	34.19	33.79	35.95	33.19	35.00
	502	µg/m3	80	15.29	14.63	14.89	15.99	15.48	15,11
	NOx		80	19.58	18.58	17.90	19.28	20.50	19.68
Aug 2024	C6H6		5	ND	ND	ND	ND	ND	ND
nug zuz4	BAP	ng/m3	1	ND	ND	ND	ND	ND	ND
	CO	mg/m3	2	0.21	0.17	0.19	0.20	0.18	0.17
[NH3	i carlos A	400	42.73	16.53	14.71	62.63	21.83	24.15
	Ozone	µg/m3	180	15.01	15.45	15.21	16.90	17.06~	17.38
	Ni	ng/m3	20	ND	ND	ND	ND	NO	ND

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	As		6	ND	ND	ND	ND	ND	ND
	Pb	µg/m3	1	ND	ND	ND	ND	ND	ND
	PM10		100	64.66	64.40	64.78	64.81	64.67	64.82
	PM2.5		60	41.45	38,46	39:00	40.55	39.53	38.83
	S02	µg/m3	80	12.97	12.16	11.06	11.86	11.66	11.17
	NOx		80	18.21	14.87	13.37	18.25	21.52	17.65
	C6H6		5	ND	ND	ND	ND	ND	ND
Sep 2024	BAP	ng/m3	1	ND	ND	ND	ND	ND	ND
SOURCE MARKET.	CO	mg/m3	2	0.18	0.18	0.17	0.16	0.20	0.19
	NH3	µg/m3	400	51.91	12.36	10.78	72.36	20.70	24.53
	Ozone	pgrina	180	12.98	13.55	11.47	13.52	15.22	15.32
	Ni	ng/m3	20	ND	ND	ND	ND:	ND	ND
	As		6	ND	ND	ND	ND:	ND	ND
	Pb	µg/m3	1	ND	ND	ND	ND	ND	ND
	PM10		100	61,14	60.32	60.15	60.83	60.00	60.27
	PM2.5		60	38.50	37.07	37.21	37.90	36.64	37.01
	SO2	µg/m3	80	12.97	12.41	12.10	13.03	12.43	12.28
	NOx	1	80	17.96	15.45	14.58	17.81	20.48	17.60
	C6H6	-	5	ND	ND	ND	ND	ND	ND
Average	BAP	ng/m3	-1	ND	ND	ND	ND	ND	ND
Average	CO	mg/m3	2	0.23	0.21	0.20	0.18	0.21	0.19
	NH3	tuning.	400	47.62	13.42	11.98	65.85	19.97	22.64
	Ozone	µg/m3	180	15.52	13.52	12.55	13.92		
	Ni		20	ND	ND	ND	ND	15.20 ND	15.32 ND
	As	ng/m3	6	ND	ND	ND	ND	ND.	ND
	Pb	µg/m3	.1	ND	ND	ND	ND	ND	ND

SRINU PITTA MANAGER (E&GC) HINDUSTAN URVARAK & RASAYAN LTD. (A Joint Vecture of NTFC, CIL, IOCL, FOIL & HFCL) Project Office- Urvarak Nagar, Barauni

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TABLE - 2

Noise Monitoring Assessment Schedule

Sr. Na.	Source	Frequency
1.	HURL Admin Building (SN 1)	Once in a Month
2	HURL Simariya Village (SN 2)	Once in a Month
3.	HURL Township (SN 3)	Once in a Month
4.	HURL Mahna Village (SN 4)	Once in a Month
6.	HURL Chakiya Village (SN 5)	Once in a Month
6	Near Bihat Village(SN 6)	Once in a Month

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MANAGER (E&QC)

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Project Office- Urvarak Nagar, Barauni





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		Prescribed	JNI, NOISE DAT			2000		
Month	Parameters	Limits in db(A) as per NAAQS Ind./Res. Area	HURL Admin Building(SA 1)	Simariya Viilage(SA 2)	HURL Residential Township(S A3)	Chackbali Refinery Road(SA4	Chakiya Village (SA5)	Bihat Village (SAs)
	24 hrs. Avg Leq Value db (A)		65.40	67.40	67.20	66.60	61.80	64.50
April 2024	Day time Avg Leq Value db (A)	75/55/65	71.22	70:38	71.13	69.65	67.96	69.19
	Night time Avg Leq Value db (A)	70/45/55	62.16	64 42	65.36	60.59	55,33	57.22
	24 hrs. Avg Leq Value db (A)	3	66.90	67,50	68.80	64.20	62.10	62.90
May 2024	Day time Avg Leq Value db (A)	75/55/65	70.19	71.28	70.39	67.29	65.49	67.78
	Night time Avg Leq Value db (A)	70/45/56	63.21	63.25	6639	61 21	56 63	56.24
	24 hrs. Avg Leq Value db (A)	-	68.40	65.30	70.20	61.50	49.40	49.90
June 2024	Day time Avg Leq Value db (A)	75/55/65	71.29	70.32	72.39	63.28	64.23	65.15
	Night time Avg Leq Value cb (A)	70/45/55	65.20	61.43	68.12	60.12	55.34	54.14
	24 hrs. Avg Leq Value db (A)		64.60	64.70	68.90	61.90	58.10	60.50
July 2024	Day time Avg Leq Value db (A)	75/55/65	89.40	68.71	70.18	64.89	62,79	67.89
	Night time Avg Leg Value db (A)	70/45/55	62.96	59.68	66.35	58.79	53.22	52.89
	24 hrs. Avg Leq Value db (A)	~ 1	63.60	62.70	66.90	60.90	55.20	62.80
Aug 2024	Day time Avg Leq Value db (A)	75/55/65	67,58	66.48	72.87	62.48	60.48	69,48
	Night time Avg Leg Value db (A)	70/45/55	60.58	57.85	64.85	59 63	51.96	52.89

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Env. STATEMENT for CTO Compliance for the period April 2024 - September 2024 for

Ammonia -Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

	24 hrs. Avg Leq Value db (A)		69.70	68 10	65.50	59.90	61,30	58.90
Sep 2024	Day time Avg Leq Value db (A)	75/55/65	73.69	72:65	69.68	67.85	65.89	83.99
	Night time Avg Leq Value db (A)	70/45/55	66.78	63.69	60.39	54.23	57.46	54.21
Average	24 hrs. Avg Leq Value db (A)	-	66.47	65.95	67.92	62.50	59.65	61.58
	Day time Avg Leq Value db (A)	76/55/65	70,90	69.97	71.27	65.91	64.47	67.25
	Night time Avg Loq Value db (A)	70(45)65	63,48	61.67	65.24	59.10	64.99	54.60

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Env. STATEMENT for CTO Compliance for the period April 2024 – September 2024 for Ammonia –Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

TABLE - 3

Ground Water Quality Assessment Schedule

Sr. No.	Source	Parameters	Frequency
11.	HURL Plant (Bore-well)	As per IS: 10500	Once in a Month
2.	HURL Township (Hand Pump)	As per IS: 10500	Once in a Month
3.	Chakiya Village (Hand Pump)	As per IS: 10500	Once in a Month

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Env. STATEMENT for CTO Compliance for the period April 2024 – September 2024 for Ammonia –Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

HURL BARAUNI, GROUND WATER QUALITY DATA AVERAGE RESULT (April 2024 to September 2024)

(Results are expressed in mg/L unless otherwise stated)

Sr. No.	Parameters	Avera	ge Analysis F	Results	Requirement
		HURL Plant (Bore- well)GW-1	HURL Township (Hand Pump)GW- 2	Chakiya Village (Hand Pump)GW- 3	(Acceptable)/Permissible Limits (IS:10500:2012)
PHYSIC	AL				
1.0	pH	7.33	7.28	7.10	6.5-8.5
2.0	Temperature	26.70	27.12	26:07	2
2.0	Colour	<5	<5	<5	5/15
4.0	Odour	ND	ND	ND	Agreeable
5.0	Tasle	ND	ND	ND	Agreeable
6.0	Turbidity (NTU)	ND	ND	ND	1/5
7.0	Total Suspended Solids	15	20.50	21	
8.0	Total Dissolved Solids	888.67	545.33	588.33	500/2000
CHEMIC	AL				
1.0	P-Alkalinity as (CaCO3)	ND	ND	ND	
2.0	Total Alkalinity as (CaCO3)	285	321.67	253.33	200/600
3.0	Chloride as Cl	67	59.50	50.17	250/1000
4.0	Sulphate as (SO4)	26,47	32.58	69.25	200/400
5.0	Nitrate as (NO3)	0.55	0.55	0.94	45/NR
6.0	Fluoride as (F)	ND	ND	ND	1.0/1.5
7.0	Total Hardness as (CaCO3)	266.67	283.33	240	200/600
8.0	Calcium as Ca	87.67	77	81.33	
9.0	Magnesium as Mg	39.97	41.04	28.27	
10.0	Sodium as Na	33.57	21.40	33.82	\triangle
11.0	Potassium as K	3.35	2.33	5.49	1.

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Env. STATEMENT for CTO Compliance for the period April 2024 - September 2024 for

Ammonia -Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

12.0	Silica as SiO2	21.24	7.21	13.27	-	
13.0	Iron as Fe	ND	0.22	0.3/NR		
HEAVY	METALS					
1.0	Manganese as Mn	ND	ND	ND	0.1/0.3	
2.0	Total Chromium as Cr	ND	ND	ND	0.05/NR	
3.0	Lead as Pb	ND	ND	ND	0.01/NR	
4.0	Zinc as Zn	0.59	0.23	0.24	5.0/15	
5.0	Cadmium as Cd	ND	ND	ND	0.003/NR	
6.0	Copper as Cu	ND	ND	ND	0.05/1.5	
7.0	Nickel as Ni	ND	ND	ND	0.02/NR	
8.0	Arsenic as As	ND	ND	ND	0.01	
9.0	Selenium as Se	ND	ND	ND	0.01/NR	
OTHERS						
1.0	Oil & Grease	ND	ND	ND	0.01/0.03	
2.0	Phenoic compound as C6H6OH	ND	ND	ND	0.001/0.002	
3.0	Total Coliform (MPN/100 ml)	Absent	Absent	Absent	-	

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Env. STATEMENT for CTO Compliance for the period April 2024 - September 2024 for

Ammonia -Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

TABLE - 4

Surface Water Quality Assessment Schedule

Sr. No.	Source	Parameters	Frequency
1.	Ganga River	As per IS: 10500	Once in a Month
2	Bihat Village (Pond)	As per IS: 10500	Once in a Month
3.	Baya Nallah	As per IS: 10500	Once in a Month

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Env. STATEMENT for CTO Compliance for the period April 2024 - September 2024 for

Ammonia -Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

HURL BARAUNI, Surface Water Quality Data Average Result (April 2024 to September 2024)

(Results are expressed in mgif, unless otherwise stated)

		Averag	e Analysis R	esults	Requiremen	
Sr. No.	Parameters	Ganga River (SW1)	Bihat Village (Pond) (SW2)	Baya Nallah (SW3)	(Acceptable)/F ermissible Limits (IS: 10500:2012)	
PHYSICAL			- Language			
1.0	pH	7.62	7.55	7.85	6.5-8.5	
2.0	Temperature	26.93	26.52	27.83		
3.0	Colour	<5	<5	<5	5/15	
4.0	Turbidity (NTU)	29	31,17	<1	1/5	
5.0	Total Suspended Solids	17.17	40.33	19.88		
6.0	Total Dissolved Solids	354.67	948.33	299.67	500/2000	
CHEMICAL					000/2000	
1.0	Total Alkalinity as (CaCO3)	153	288.33	158.83	200/600	
2.0	Chloride as CI	36	218.33	37.33	250/1000	
3.0	Sulphate as (SO4)	23.88	48.65	21.94	200/400	
4.0	Nitrate as (NO3)	1.01	0.47	0.29	45/NR	
5.0	Fluoride as (F)	ND	ND	ND	1.0/1.5	
6.0	Total Hardness as (CaCO3)	171.67	292.83	174.67	200/600	
7.0	Calcium as Ca	68	68	71.33		
8.0	Magnesium as Mg	13.21	44.28	7.54		
9.0	Dissolved Oxygen	5.48	3.32	4.77	-	
10.0	COD	31.67	111.67	40.67		
11.0	BOD (3 days at 27°C)	6.20	24.83	7.17		
12.0	Sodium as Na	31.37	30.83	24.88	-	
13.0	Potassium as K	2.88	2.58	1.73	1	

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Env. STATEMENT for CTO Compliance for the period April 2024 - September 2024 for

Ammonia -- Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

HEAVY ME	TALS					
1.0	Iron as Fe	0.16	ND	ND	0.3/NR	
2.0	Manganese as Mn	ND	ND	ND	0.1/0.3	
3.0	Total Chromium as Cr	ND	ND	ND	0.05/NR	
4.0	Lead as Pb	ND	ND	ND	0.01/NR	
5.0	Zinc as Zn	0.51	0.51	0.45	5.0/15	
6.0	Cadmium as Cd	ND	ND	ND	0.003/NR	
7.0	Copper as Cu	ND	ND	.ND	0.05/1,5	
0.8	Nickel as Ni	ND ND		ND	0.02/NR	
9.0	Arsenic as As	ND	ND	ND	0.01	
10.0	Selenium as Se	ND	ND	ND	0.01/NR	
OTHERS					30000000	
1.0	Oil & Grease	ND	ND	ND	0.01/0.03	
2.0	Phenolic compound as C6H6OH	ND	ND	ND	0.001/0.002	
3.0	Total Coliform (MPN/100 ml)	392.67	752.67	1068.83		

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Env. STATEMENT for CTO Compliance for the period April 2024 – September 2024 for Ammonia –Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

TABLE - 5

Flue Gas Monitoring Assessment Schedule

ir. No.	Source	Parameters	Frequency
1.	Primary Reformer	SPM, SOx, NOx & CO	Twice in a Month
2.	Prill Tower	SPM & Ammonia	Twice in a Month
3.	HRSG-1	SPM. SOx, NOx & CO	Twice in a Month
4.	HRSG-2	SPM, SOx, NOx & CO	Twice in a Month

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Env. STATEMENT for CTO Compliance for the period April 2024 - September 2024 for

Ammonia -- Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

HURL BARAUNI, Flue Gas Monitoring Data Average Result (April 2024 to September 2024)

(Results are expressed in mg/l, unless otherwise stated)

Month	200		NAAQS				
month	Par	ameters	Standards	Primary Reformer	HRSG-1	HRSG-2	
	PM10		-	ND (DL-5)	ND (DL-5)	ND (DL-5	
April	NO _x	mg/Nm²	-	60	70	64	
2024	SO ₂	mgavan.	- 2	7	6	6	
	CO		-	ND (DL-1)	7	13	
	PM10		18	ND (DL-5)	ND (DL-5)	ND (DL-5	
May	NO.	mg/Nm ³	-	58	69	61	
2024	SO	nigrein.		7	4	5	
	CO		-	ND (DL-1)	9	10	
	PM10		90	ND (DL-5)	ND (DL-5)	ND (DL-5	
June 2024	NO.			48	56		
autie 2024	SO ₂	mg/Nm ³		6	7	61	
	CO	7 1		ND (DL-1)		5	
	PM10		8.	ND (DL-5)	9	13	
July	NO.			44	ND (DL-5)	ND (DL-5)	
2024	SO;	mg/Nm ³	-		52	55	
	CO	1 1	-	5	6	7	
	PM10	_	-	ND (DL-1)	7	13	
Aug	NO.	1 +	-	ND (DL-5)	ND (DL-5)	ND (DL-5)	
2024	SO ₂	mg/Nm ³		44	53	52	
	CO	-		5	7	8	
	PM10	-	+	ND (DL-1)	7	13	
Con	NO,	-		ND (DL-5)	ND (DL-5)	ND (DL-5)	
Sep 2024	SO,	mg/Nm1 -		60	70	64	
	CO	-	-	7	6	6	
	PM10		-	ND (DL-1)	В	14	
	NO,	-		ND (DL-5)	ND (DL-5)	ND (DL-5)	
Average	SO ₂	mg/Nm ²	- '''	52.33	61.66	59.50	
	CO			6.16	6.00	6.16	
SRINU PI			-	ND (DL-1)	7.83	12.66	

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Env. STATEMENT for CTO Compliance for the period April 2024 - September 2024 for Ammonia -- Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

HURL BARAUNI, Flue Gas Monitoring Data Average Result (April 2024 to September 2024)

(Results are expressed in mg/l, unless otherwise stated)

Month	Para	meters	NAAQS	2.02
			Standards	Prill Tower
April 2024	PM10			33
p.m.z.vz.v	NH ₂	mg/Nm ³		44
May 2024	PM10			39
may was a	NHs	mg/Nm ^o	-	
June 2024	PM10			42
	NHa	mg/Nm ³		46
July 2024 -	PM10			52
	NH ₃	mg/Nm ³		43
Aug 2024	PM10			52
July 2024 Aug 2024	NH ₂	mg/Nm ³	-	43
	PM10		-	53
Sep 2024	NH ₀	mg/Nm ²		33
	PM10			44
Average	NH,	mg/Nm ³		39.50
	19.000	287		47.83

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Annexure-1

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Env. STATEMENT for CTO Compliance for the period October 2024 - March 2025 for Ammonia -Urea (2200 MTPD & 3850 MTPD) plant of HURL at Barauni

This Compliance Report is the fulfilments of the condition of the Environmental Clearance (EC) vide File No.EC [IA/BR/IND2/61377/2016, J-11011/371/2016-IA II (I)] for the period of October 2024 - March 2025 This report has been prepared by Go Green Mechanisms Pvt Ltd by collecting respective samples in consultation with the State Pollution Control Board (SPCB) officials and Hindustan Urvarak and Rasayan Limited (HURL) officials During the above mentioned period the analysis of the environmental parameters has been conducted by the MOEF&CC recognized Laboratory at Go Green Mechanisms Pvt Ltd, Ahmedabad.

The proposed project is located at Barauni and was commissioned on 18 November 2022 with the capacity of 2200MTPD Ammonia and 3850MTPD Urea in the District Begusarai in the state of Bihar. The commercial production has started from 19 November 2022 with the board name APNA UREA. The area falls in the agricultural belt of the Bihar.

The compliance report fulfils the 19 Nos of Specific Conditions and 17 Nos. of General Conditions led by Ministry of Environment, Forests and Climate Change Rainwater Harvesting and Ground Water charging has been proposed as per Standard Guidelines:

- Guidelines on Artificial Recharge of Water, Central Water Ground Board, Ministry of Water Resources, Gol (2000)
- Manual on Artificial Recharge of Ground Water, Central Water Ground Board, Ministry of Water Resources, Gol (2007)
- Rain Water Harvesting and Conservation Manual Consultancy Services Organization, CPWD, Gol (2002)

The Environmental Monitoring report of 6 months w.r.t Air. Water and Noise have been presented separately with the average values. The environmental conditions and the compliance have been found normal as per the Standards. The Air Quality results have been presented through a self-explanatory table with the NAAQ Standards w.r.t the parameter PM10, PM2.5, NOx. SOX, C6H6, CO Benzo(a) pyrene (BAP), NH3, Ozone, Nickel, Arsenic and Lead. Three sets each of Ground Water Samples and Surface Water Samples have been collected, analyzed in a self-explanatory table, and compared with Drinking Water Standards (IS:10500:2012) The analysis consists of eight nos. of physical parameters, thirteen no's of chemical parameters, nine no's of Heavy metals and three no's of miscellaneous parameters. Noise Quality has also been measured at six different locations in the periphery of the project area. The results have been presented through self-explanatory table consisting of the Standard NAAQS w.r.t noise.

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For, GO GREEN MECHANISMS PVT. LTD.

Authorized Signatory

पद्धाः प्रवेषकः, केन्द्रीय ब्राडिपमालः, ई & क्यूनी विभाग विदुक्तान्,दार्वरकः & रसायन शिमिटेड (विमान ब्राडीक प्रवीधी क्योबांत है क्यापील ब्राह्म कृष्ट कर) वरीनी (ब्रिहार) 851115



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The below report with respect to Air, Water and Noise represents the average values of different sampling stations collected at different time during the study period of October 2024 - March 2025.

TABLE -1 Location of Air Quality Monitoring Stations

ir. No.	Location of Station	Frequency
1.	HURL Admin Building(SA1)	Twice a Week
2.	HURL Township(SA2)	Twice a Week
3.	Chakiya Village (SA3)	Twice a Week
4.	Bihat Village (SA4)	Twice a Week
5.	Simiriya Yillage (SAS)	Twice a Week
6.	Chackball Village(SA6)	Twice a Week

For GO GREEN MECHANISMS PVT. LTD.

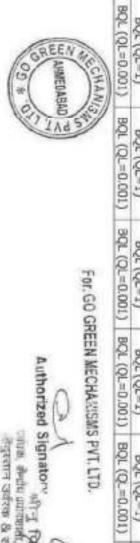
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Arsenic		Nickel	Benzo(a) pyrene	Benzene	Carbon Monoxide	Ammonia	Ozone	NO2	SO ₂	PMas	PM ₁₀	Lead	Arsenic	Nickel	Benzo(a) pyrene	Benzene	Carbon Monoxide	Ammonia	Ozone	NO ₂	SO ₂	PM _{2.5}	PMus	- Constitutions	Caramadan	
117911	rayon.	ng/m³	ng/m³	h8/m3	mg/m²	hg/m³	µg/m³	hg/m³	µg/m³	hg/m³	hg/m ³	hg/m³	ng/m³	ng/m³	ng/m³	hg/m3	mg/m ²	hg/m ³	hg/m ³	hg/m ³	hg/m ³	hg/m²	mg/m ³			
	D.	20	1	in.	4	400	180	80	80	60	100	1	6	20	1	5	4	400	180	80	80	60	100	Standards	NAAQS	HURL
14-17-170	BOI (OI =1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.49	12.21	12.84	24.26	14.14	35.69	68.84	BQL (QL=0.001)	8QL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.61	9.31	13.69	21.93	15.23	33.74	68.79	Building (SA1)	HURL Admin	HURL Barauni, Air Quality data – (October 2024
	BQL (QL-1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.53	14.07	13.57	22.73	14.33	35.53	70.01	BQL (QL=0.001)	8QL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.62	11,87	14.03	22.27	15,95	34.71	71,57	(SA2)	HURI Township	ality data — (0
	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.44	11.53	13.07	24.17	14.6	36.66	71.08	BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.56	13,23	13,45	22.65	15.05	35.08	71.71	(SA3)	Сћамув Иваде	
	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.54	12,84	13.8	25.64	13.91	35.47	71.8	BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.63	13.63	13.38	22,4	15.26	34.93	70.54	(SA4)	Blivit Village	- March 2025)
	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.52	14.32	14.18	23.13	13.59	35.65	69.44	BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.64	12.01	13.96	22.66	15.76	33.93	72.14	(SA5)	Simariya Village	
	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.56	12,28	14.4	25.5	14.62	36.42	73.26	BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.58	11,33	14.02	20.56	14.37	33.6	58.47	(\$46)	Chackball Village	



For GO GREEN MECHANISMS PVT. LTD.

Authorized Signatory

ायक, केन्द्रीय प्रयोगकार्था, ई 8 क्यूमी विभाग नदुस्तान उर्वरक 8 स्थायन लिमिटेड

हा, बर्गबंदा, स्टीर्थ, वर्गबंदा र एक्कारित व एक्कार जा। बर्गिनी (विहास) 851115



		Service Servic		TICE THE T			HQ			K G			CN		n Ge			Apu		strac	211			1 3274
	-	5)+	911-2	10.52	25	Jan-		100	0	104	0.00	grav	riin	dia	HIL	nickt.	24	Dec-	(6)	ww		igra	ai thi	tonth
Lead	Arsenic	Nickel	Benzo(a) pyrene	Benzene	Carbon Monoxide	Ammonia	Ozone	NO ₂	502	PM _{2.5}	PM ₁₀	Lead	Arsenic	Nickel	Benzo(a) pyrene	Benzene	Carbon Monoxide	Ammonia	Ozone	NO ₂	SO2	PM _{0.5}	PM ₁₀	Farameter
hg/m³	ng/m³	ng/m³	ng/m³	hg/m³	mg/m³	hg/m ³	119/m ³	hg/m ³	hg/m ³	hg/m³	hg/m ³	hg/m ³	ng/m³	ng/m³	ng/m³	hg/m ³	my/m³	hg/m³	hg/m ³	hg/m³	hg/m ³	hg/m ³	hg/m³	1000
-	6	20	1	vi	4	400	180	80	80	60	100	-	đi	20	1	O1	+	400	180	80	80	60	100	Standards
BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.65	19.97	14.94	28.51	16.52	39.67	73.71	BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.53	17.86	21.35	33.2	17.49	39.14	72,91	Building(SA1)
BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.62	20.56	16.81	27,47	18.22	39.99	76.56	BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.57	19.2	20.28	31,58	18.79	36.42	70.93	HURL Township (SA2)
BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.56	19.11	15.09	24.17	16.65	38.22	73.96	BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.56	18	21.33	34.62	19.62	38.69	72.59	Csaldyii Village (SA3)
BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.56	21.39	16.03	25.43	15.86	43.16	78.27	BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL(QL=0.5)	BQL (QL=2.5)	0.54	16.36	20.23	31.27	19.21	35.88	71.76	Bhat Wlage (SA4)
BQL (QL=0.001) BQL (QL=0.001)	BQL (QL=1)	BQL(QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.71	22.58	18,35	27.2	18.02	41,39	76.57	BQL (QL=0.001)	BQL (QL≈1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.58	15.21	11,95	26.98	15.3	36,3	72.42	Simariya Village (SA5)
BQL (QL=0.00	BQL (QL=1)	8QL (QL=5)	BQL (QL=0.5	BQL (QL=2.5	0.62	21.55	16,83	25.76	16.35	41.12	75.96	BQL (QL=0.00	BQL (QL=1)	8QL (QL=5)	BQL (QL=0.5	BQL (QL=2.5	0.57	18.81	22.84	35.75	19,63	37,63	73.62	Village(SA6)



FOR GO GREEN WEICHARISMS PUT LI

Authorized Signation



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	-	9	916	rout	25	Mar-	10		(3)	Soli		gre-	*10	18	richi	1000	25	Feb-	0) we	H G	ojo	Xive	form
Lead	Arsenic	Nickel	Benzo(a) pyrene	Benzene	Carbon Monoxide	Ammonia	Ozone	NO ₂	502	PM _{2.5}	PMuo	Lead	Arsenic	Nickel	Benzo(a) pyrene	Benzene	Carbon Monoxide	Ammonia	Ozone	NO2	50,	PM _{2.5}	PM ₁₀	Parameters
µg/m³	ng/m³	ng/m²	ng/m³	ha/m³	mg/m ³	hg/m²	hg/m³	µg/m³	µg/m³	hd/w ₃	hd/m ₂	hg/m ³	ng/m³	ng/m²	ng/m³	hg/m ²	mg/m ²	hg/m ³	µg/m³	pg/m²	hg/m²	Fg/m ³	hg/m³	-
1	6	20		(n	4	400	1.80	80	80	60	100	1	6	20	1	Un	4	400	180	80	80	60	100	NAAOS Standards
BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.58	15.36	16.57	25.84	16.57	41,66	75.05	BQL (QL=0.001)	BQL (QL=1)	BQL (QL=S)	BQL (QL=0.5)	BQL (QL=2.5)	0.56	17.32	14.01	24,28	14.76	39,42	71,09	HURL Admin Building(SA1)
BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL-2.5)	0.64	17.56	19,17	28.82	18.93	44.94	80.65	BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.59	20.27	15,92	27.3	17.07	41.29	73,44	HURL Township (SAZ)
BOT (Or=0'001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL-2.5)	0.55	15.53	15,99	24.68	15.04	37.65	69.82	BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.53	18.01	12.66	23.09	13.62	35.04	65.81	Chakiya Village (SAJ)
BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.58	14.87	15.4	24.29	14.53	39,94	72.63	BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.56	18.54	16.04	27.03	16.9	41.71	74,44	Binat Village (SA4)
BOT (OT=0'001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL-2.5)	0.62	17.73	17.73	26.82	16.98	43.69	76.86	BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0,57	20.09	14.89	25.14	15.63	38.69	70.55	Simanya Village (SAS)
BQL (QL=0.001)	9QL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.6	18.09	16.96	26.75	16.78	42.91	77.04	BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.58	19.87	16	27,28	17	41.29	74.36	Otsetoviii Villaga(SA6)



E (HWEDABAD)

09 a

शीनु पिट्ठा प्रवास, कन्द्रीय प्रयोगसाला, हे & क्यूडी क्रेसाम विद्वारतान जर्वरक & रसायन रिप्रिकेट नेनार महिला, तथीर्थ सर्वेशक क्रिकेट स्थान स्था



© -91-70690 72601

1		11111		2025)	Z024 - March	October	werage			or girls		Month
Lead	Arsenic	Nickel	Benzo(a) pyrene	Benzene	Carbon Monoxide	Ammonia	Ozone	NO ₂	SO ₂	PMb.s	PM ₁₀	Parameter
Fm/br	ng/m ³	ng/m ³	ng/m ³	hg/m ³	mg/m³	ha/m²	µ9/m³	hg/m ³	pg/m³	Fg/m ²	pg/m³	
1	6	20	1	U	4	400	180	80	80	60	100	Standards
BQL (QL=0.001)	BQL (QL=1)		BQL (QL=0.5)	BQL (QL=2.5)	0.57	15.34	15.57	26.34	15.79	38.22	71.73	Building(SAL)
BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.50	17.26	16.63	26.70	17.22	38.81	73.86	(SAZ)
BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.53	15.90	15.27	25.56	15.76	36.89	70.83	(SA3)
BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.57	16.27	15.81	26.01	15.95	38.52	73.24	(SA4)
BQL (QL=0.001)	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.61	16.99	15.18	25.32	15.88	38.28	73.00	Sécur educino
BQL (QL=0.001	BQL (QL=1)	BQL (QL=5)	BQL (QL=0.5)	BQL (QL=2.5)	0.59	16.99	16.84	26.93	16.46	38.83	73.79	Village(SA5)



For GO GREEN MECHANISMS TVI. LIV.

Authorized Signatory



Head Office & Lab

Doyal Entire Hallance Highway No. 8, Cyp. APRIC Market Ovic-1, Jetsipe, Charlet Abmissibati-362425.

Support INCOM.



Location of Noise Monitoring Stations

r. No.	Source	Frequency
1.	HURL Admin Building (SN1)	Once in a Month
2.	HURL Township (SN2)	Once in a Month
3.	Chakiya Village (SN3)	Once in a Month
4.	Bihat Village (SN4)	Once in a Month
5.	Simiriya Village (SN5)	Once in a Month
6.	Chackbali Village (SN6)	Once in a Month



For, GO GREEN MECHANISMS PVI. LTD.

Authorized Signator,

प्रकार के दीप प्रयोगशाला, ई 8 वर्षी विभाग विद्यासान उर्वरका 8 रसायन शिपिटेड क्रिक्ट बहुंबीस स्थान स्थान क्रिक्ट क्रिक्ट अरोनी (विकार) 851115



Head Office & Lab Dayle Estatu National Highway No. 8, Opp. 47NC Market Gene-1, Jetakur, Sistrat Abmedichae 382479. Sulana 19204.

HURL Barauni, Noise data - (October 2024 - March 2025)

III.	11	SHEET, SHEET,	ac ps	77.11	77.			No.	2000			44			N/S	2173	100/2			30		- 0
		Average			Mar-25			Feb-25			Jan-25	-		Dec-24		0.00	Nov-24			Dct-24		Month
	Night time dB (A) Leq	Day time dB (A) Leq	24 hrs. Avg Leq Value dB(A)	Night time dB (A) Leq	Day time dB (A) Leq	24 hrs, Avg Leq Value dB(A)	Night time dB (A) Leq	Day time dB (A) Leq	24 hrs. Avg Leq Value dB(A)	Night time dB (A) Leq	Day time dB (A) Leq	24 hrs. Avg Leq Value dB(A)	Night time dB (A) Leq	Day time dB (A) Leq	24 hrs. Avg Leq Value dB(A)	Night time dB (A) Leq	Day time dB (A) Leq	24 hrs, Avg Leq Value dB(A)	Night time dB (A) Leq	Day time dB (A) Leq	24 hrs. Avg Leq Value dB(A)	Parameters
	70	75	×	62	75		70	75		70	75	*	70	75	*	70	75		70	75		Prescribed Limit in dB(A) as per NAAQS Industrial area
,	57.5	67.6	66.0	57.9	66.1	64.6	55.8	65.8	64.2	58.2	56.8	65.3	60.3	58.8	67.3	60.4	1.69	67.6	52.3	58.8	67.0	HURL Admin Building
	53.6	69.2	67.4	52.4	65.0	63,3	57.2	69.8	68.1	55.3	69.6	67.9	56.2	70.9	69.2	55.4	71.0	69,3	45.0	68.6	66.8	HURL
	57.2	66.4	64.9	53.3	62.1	60.6	53.7	63.2	61,6	58.8	68.9	67.3	61.8	68.5	67.2	63.0	68.8	67.5	52.8	66.7	65.0	Charge Vilige
	56.1	69.6	68.0	53.0	63.6	62.1	52.1	67.7	66.0	59.1	69.4	67.8	61.2	71.6	70.0	56.8	71.6	69.9	54.3	73.7	72.0	Brat Viloge
	50.0	63.3	61.7	49.5	61.1	59.5	48,6	61.5	59.9	52.5	63.8	62.2	53.1	64.2	62.6	53.1	64.2	62.6	43.2	65,1	63.3	Simiriya
	51.3	62.5	61.0	51.5	62.6	61.0	52.2	61.9	60.3	51.8	62.2	60.6	53.0	61.5	60.1	53.0	61.5	60.0	46.1	65,4	63.7	Checkball Village

श्रीन पिडा अपन स्माप क्रामाताता. ई के बच्चती देगारा तिव्यंतान फर्वरका के रसायन लिनिटेड For, GO GREEN MECHANISHIS FV...

Authorized Signator:

हेन्द्रोंन, व्यक्तिमा स्टोर्डरी, व्यक्तिकात है एवट्टीका साथ कृत करते. स्टीनी (विकास) 851115



ead Office & Lab you Estate, National Highway, No. 8, Copy APINC Market Gute 1, Jelangur, Sharish Abmediation, 392426.

S-91-70000 72001 TA & Charlesgope emecha esmacon

Location of Ground water Monitoring Stations

Sr. No.	Source	Parameters	Frequency
ı.	HURL Plant Nr. Main gate (Bore-well)	As per (IS:10500)	Once in a Month
2.	HURL Township (Guest House) (Bore-Well)	As per (15:10500)	Once in a Month
3.	Chakiya Village (Hand Pump)	As per (IS:10500)	Once in a Month

For, GO GREEN MECHANISMS PVI, LIE.

Authorized Signate:

अीम् पिष्ठा प्रबंधक, केंद्रीय प्रक्रेमशाला, ई & क्यूमी विभाग विदुश्तान उर्दरक & रसायन लिमिटेट (प्रबंध, ब्रम्मेल स्टीर्स, व्हांबाल है लालेट व स बृह ज्या बरीनी (विहार) 851115

Head Office & Lob Doyal Estate, National Highway Inc. R. Coll APINC Market Care. J. process. Don't Abreelation 387476.

Co	GR	E	E	V	i i i i i i i i i i i i i i i i i i i	gr.	-LR	4			3	21	1000		100			0			200				120			•	MIN		(ho		
		32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	11	10	9	00	7	6	S	4	3	2	1	Sr No.
		Total Coliform	Nitarte	Sodium As Na	Potassium as K	Zinc as Zn	Nickel as Ni	Manganese As Mn	Lead as Pb	Iron as Fe	Copper as Cu	Total Chromium as Cr	Cadmium as Cd	Arsenic as As	Total Alkalinity	Turbidity	Total Hardness	TSS	TDS	Temprature	Taste	Sulphate	Silica	PH	Oll & Grease	Odour	Мд	Fluoride	Color	Chloride	Calcium	Alkalinity as CaCO3	Parameters
C AHMEDABAD	ARC THAN	MPN per 100m	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	20		mg/L	mg/L		mg/L	*	mg/L	mg/L	8	mg/L	mg/L	mg/L	Unit
NA STATE OF THE PARTY OF THE PA	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	BQL(QL=2)	2.70	27.59	2.92	BQL (QL=0.02)	BQL (QL=0.01)	BQL (QL=0.05)	3QL(QL=0.005)	0.05	BQL (QL=0.02)	BQL (QL=0.02)	BQL(QL=0.002)	10.0	BQL(QL=2)	2.19	401,33	BQL (QL=5)	539.00	25.77	Agreeable	28.61	7.26	7.51	BQL (QL=1)	Agreeable	30.17	0.46	BQL (QL=2.5)	38.32	111,09	352.67	Township (Guest House)
त्रा 3 । पठा विध्वविद्याला ई ६ स्पूरी विभाग उर्वत्क ६ रसायन लिमिटेड	officer (France)	BQL(QL=2)	0.49	71.31	4.57	BQL (QL=0.02)	BQL (QL=0.01)	0.32	BQL (QL=0.005)	0.07	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.002)	0.01	BQL(QL=2)	1,17	480.17	BQL (QL=5)	715.50	25.75	Agreeable	53,91	2.86	7.61	BQL (QL=1)	Agreeable	49.90	0.50	BQL (QL=2.5)	138.80	110.59	377.00	Chakiya Village
	For, GO GREET	BQL(Q:=2)	0.52	22.33	3.17	BQL (QL=0.02)	BQL (QL=0.01)	0.20	BQL(QL=0.005)	0.05	BQL (QL=0.02)	BQL (QL=0.02)	BQL(QL=0.002)	0.01	8QL(QL-2)	2.48	415,67	BQL (QL=5)	531,83	25.47	Agreeable	17.64	14.37	7.64	BQL (QL=1)	Agreeable	34.30	0,21	BQL (QL=2.5)	33.24	111,08	338.83	Nr. Main gate
Authorized Signatory	For GO GREEN MECHANISMS PYT.	Absent	45	NS	NS	Us	0.02	0.1	0.01	0.3	0.05	0.05	0.003	0.01	SN	1	200	SN	500	SN	Agreeable	200	NS	6.5-8.5	NS	Agreeable	30	1	UI	250	75	200	2
ignatory	PYL CO.	Absent	No relaxation	NS	NS	15	No relaxation	0.3	No relaxation	No relaxation	1.5	No relaxation	No relaxation	0.05	SIN	Lh	600	NS	2000	85	Agreeable	400	NS	No relaxation	NS	Agreeable	100	1.5	15	1000	200	500	P

शीनु पिडा श्रीप प्रपोगवाला ई & क्यूडी दिशाग प्रेम उर्वरक & स्सायन सिमिटेड क्यूडिटी क्रवेबांव के स्वाबीव वाड गुप्त का बतीर्थ (श्रिक्ट) 851115









TABLE -4

Location of Surface water Monitoring Stations

Sr. No.	Source	Parameters	Frequency
1,	Ganga River	As per (IS:10500)	Once in a Month
2.	Bihat Pokhar	As per (IS:10500)	Once in a Month
3.	Baya Nallah	As per (IS:10500)	Once in a Month



For, GO GREEN MECHANISMS PVI. L. ..

Authorized Signatory

श्रीनु पिद्वा प्रवंपक, केन्द्रीय प्रयोगशासा, ई & क्यूसी विभाग विदुश्लान उर्वरका & रसायन शिमिटेड (प्रवंत, व्यंबेक, श्रीति प्रवोग्धि ह स्ववंत कक्ष वृद्ध प्रय बरोनी (विहार) 851115

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30	DEL	M	9	1	4
11	$\alpha_{E,I}$	SIN.			

GREEN

श्रीनु पिनु। विप प्रदेशवाला, ई & क्यूमी विभाग त्रिय उर्वारक & रमापन व्हिन्दिन क्रिक्ट स्टेश्स व्यक्ति है लानकि व क्र जुन कर बतेनी (बिहार) 851115

For GO GREEN MECHALISMS +

Authorized Signatory

Head Office & Cob Dayshestatic Nations Highway Ne. E. Opp WHIC Market Cate- L. Jacober District Annecation-352436. Second 1907A.

L	46	T .	AL.	PVT.	70				St.	74	100				0	This is	7250	2010				000	Court	(6	94				List of	
30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	00	7	6		4	w	2	1	Sr No
10129 COSTOTIII	Nitrate	Sodium As Na	Potassium As K	Zinc As Zn	Nickel as Ni	Manganese As Mn	Lead as Pb	Iron as Fe	Copper as Cu	Chromium as Cr	Cadmium as Cd	Arsenic as As	Dissolved Oxygen	Turbidity	Total Hardness	TSS	TDS	Temperature	Sulphate	pH	Oil & Grease	Magnesium as Mg	Fluoride	Colour	Chloride	Chemical Oxygen Demand (COD)	Calcium as Ca	BOD at 27°C for 3 days	Alkalinity as CaCO3	Parameters
MEN DEL TORINI	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	1/6ш	mg/L	1/gm	mg/L	mg/L	mg/L	NTU	ng/L	ng/L	mg/L	ನ	mg/L	+	mg/L	mg/L	1/gm	0	mg/L	mg/L	mg/L	mg/L	mg/L	Unit
30,00	2.62	11.07	4.26	BQL (QL=0.02)	BQL (QL=0.01)	BQL (QL=0.05)	BQL (QL=0.005)	BQL (QL=0.05)	BQL (QL=0.02)	BQL(QL=0.02)	BQL (QL=0.002)	BQL (QL=0.005)	6.33	38,85	166.67	12.68	247.83	25.60	20,41	7.45	BQL (QL=1)	13.97	0.20	BQL (QL=2.5)	59.40	35,33	36.41	7.87	84.33	Ganga River
10.67	4,45	75.66	20.22	BQL (QL=0.02)	8QL (QL=0.01)	BQL (QL=0.05)	BQL (QL=0.005)	BQL (QL=0.05)	BQL (QL=0.02)	BQL (QL=0.02)	BQL (QL=0.002)	BQL (QL=0.005)	6.50	3.78	276.33	13.67	566.50	25.75	17.73	7.44	BQL (QL=1)	24.46	0.63	BQL (QL=2.5)	138.04	26,00	70,40	6.42	235.67	Binat Pokhar
Ch	25	3	i.s	0.02	0.1	0.01	0.3	0.05	0.05	0.003	0.01	NS	-	200	S	500	NS	Agreeable	200	NS.	6.5-8.5	NS.	Agreeable	30	1	Ç,	250	75	200	AL.
UO DEMONSTRATION	NS	SN	15	No reloxation	0.3	No relaxation	No relaxation	1.5	No relaxation	No relaxation	0.05	NS	5	600	NS	2000	NS	Agreeable	400	SN	No relaxation	NS.	Agreeable	100	1.5	15	1000	200	600	22

(V)+91-70690-72001

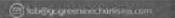


mg/L MPN per 100ml
mg/L
mg/L
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mg/L
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For GO GREEN MECHANISMS PVI. L.

GREEN

श्रीनु पिद्वा प्रबंधक, केन्द्रीय प्रयोगशाला, ई & क्यूसी विधाग हिंदुस्तान उर्दरका & रसाधन लिमिटेड (केंब्रेस, मार्थेस, हर्दाक्षक हे एक्सीक काम क्यू रूप करीनी (बिहार) 851115 (C) -81-70490 72001



(a) www.gogreeneme.horosma.com

TABLE -5

Location of Flue Gas Monitoring Stations

Sr. No.	Source	Parameters	Frequency
1.	HRSG -01	PM, SOx, NOx & CO	Twice in a Month
2.	HRSG -02	PM, SOx, NOx & CO	Twice in a Month
3.	Primary Reformer	PM, SOx, NOx & CO	Twice in a Month
4.	UREA Prill Tower	PM, NH3	Twice in a Month

Month	Perameter	HRSG -01	HR5G -02	Primary Reformer	UREA Prill Towe
Oct-24	PM (mg/Nm ²)	3.25	4.20	3.60	43.00
	Sox (ppm)	3.50	4.50	4.50	-
	NOx (ppm)	63.00	59.00	30.50	
	CO (mg/Nm3)	14.30	14.35	25.40	-
	NH3 (mg/Nm3)	9			60.00
Nov-24	PM (mg/Nm ³)	3.50	4.00	3.70	41.65
	Sax (ppm)	3.50	3.00	3.50	
	NOx (ppm)	65.00	45.50	37.50	-
	CO (mg/Nm3)	18.90	20.60	27.50	
	NH3 (mg/Nm³)		7/		47.95
Dec-24	PM (mg/Nm ³)	4.40	3.98	4.53	41.40
	Sox (ppm)	4.50	3.50	5.50	
	NOx (ppm)	76.00	70.50	40.00	-
	CO (mg/Nm3)	18.90	19.50	16.60	-
	NH3 (mg/Nm³)		47	-	46.90
Jan-25	PM (mg/Nm ³)	4.20	4.75	3.65	47.40
	Sax (ppm)	5.00	4.00	3.50	
	NOx (ppm)	51.00	56.00	39,50	
	CO (mg/Nm3)	22.90	22.35	26.35	
	NH3 (mg/Nm3)	9	-		48.90
Feb-25	PM (mg/Nm3)	4.10	4.85	3.95	40.35
	Sox (ppm)	2.50	3.00	3.50	2
	NOx (ppm)	48.50	68.00	35.50	
	CO (mg/Nm3)	17.75	22.35	29.80	
	NH3 (mg/Nm3)	7			46.80
Mar-25	PM (mg/Nm3)	3.95	4.70	3.35	40.30
	Sox (ppm)	2.50	4.50	2.50	
	NOx (ppm)	41.00	56.50	36.50	
	CO (mg/Nm3)	14.30	21.75	25.20	•
	NH3 (mg/Nm ³)				39.10
Average	PM (mg/Nm ³)	3.90	4.41	3.80	42.35
	Sax (ppm)	3.58	3,75	3.83	
	NOx (ppm)	59.08	60.92	36.58	
	CO (mg/Nm3)	17.84	20.15	25.14	
	NH3 (mg/Nm³)		-		48.28

For GO GREEN NECHANIONS

भीनु पिडा प्रबंधक केन्द्रिय प्रयोगकाला, ई & क्यूसी विभाग व्हिंद्रस्तान उर्वरक & रसाधन लिथिटेड डिजीस, बॉबीस स्थीत जोक्स है स्वर्णक क स्कृतका क्रीनी (बिहार) 851115

